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University of Lowell
Continuing Education
Evening School
Lowell, Mass. 01854

Brochure of

UNIVERSITY OF LOWELL CONTINUING EDUCATION EVENING SCHOOL SECOND SEMESTER 1977 - 1978 ACADEMIC YEAR

UNIVERSITY OF LOWELL
CONTINUING EDUCATION
EVENING SCHOOL
OFFICE: Lower Level, Cumnock Hall
North Campus

SECOND SEMESTER CALENDAR (Jan. 1978)

January 9, 10, 11, 12; 6:30-8:00 p.m. ..... Registration
Monday through Thursday
January 16, Monday ..... Martin Luther King Day
January 17, Tuesday ..... Classes Begin
February 20, Monday ..... Washington's Birthday
April 17, Monday ..... Patriot's Day Holiday
April 27 ..... End of Second Semester
June 3 ..... Commencement

REGISTRATION INFORMATION

PRELIMINARY REGISTRATION

Applicants and students are encouraged to submit specified preliminary registration forms prior to the scheduled registration dates. Since no payment of fees is involved, the student will NOT be considered as registered at this time and must therefore complete the process of registration by payment in full the amount due during the scheduled registration period or during a prior period specified during the preregistration. The preliminary procedure may provide the student with an opportunity to request a choice of night for attendance and will expedite the registration procedure.

SCHEDULED REGISTRATION

Students may register by filling out the necessary forms and paying the required fees before attending classes. Registration is held on the dates indicated in the calendar. On those days the Business Office is open from 6:00 p.m. to 8:30 p.m. A student is not registered until all tuition and fees have been paid and the individual class cards have been validated by the Bursa¬. These cards are required for admittance to class; in addition, the Bursar will issue a numbered receipt. Students must obtain an identification card during this registration period. Identification cards obtained during the first semester are valid for the second semester.

LATE REGISTRATION

Late registration is permitted for a limited period by payment of the late registration fee. No new registration or class changes are accepted after the end of the first week of classes.

CLASS SCHEDULE

Classes in the Undergraduate Degree Program are scheduled on Monday, Tuesday, Wednesday, Thursday and Friday evenings as listed in the schedule from 7:00 p.m. to 10:00 p.m. Other hours are sometimes scheduled in individual subjects, in which cases the hours are listed with the subject descriptions. Saturday classes may also be scheduled.

SIZE OF CLASS

Those classes which do not register a minimum of 15 students may be cancelled.

TUITION AND FEE INFORMATION

REGISTRATION FEE

A payment of $5.00 per semester is required of all students for registration and compulsory insurance, in addition to tuition and other charges. This payment is not refundable.

The above compulsory fee, approved by the Board of Trustees of the University of Lowell includes an accidental medical insurance plan to cover registered students in the Evening School while on the premises of the University for scheduled instruction and while engaged in any supervised activity sponsored by the Evening School. Payment will be made for medical expenses from such accidents up to a maximum of $1,000. Claim forms must be obtained from the Evening School Office and taken to the doctor or hospital at the time of treatment. Benefits are paid directly to the medical facility.

LATE REGISTRATION FEE

A late registration fee of $10.00 is charged any student who registers after the regular registration dates as listed in the calendar. This fee is in addition to the normal registration fee.

TUITION

Tuition charges for Undergraduate Degree subjects are $22.00 per contact hour.

LABORATORY FEE

A $10.00 laboratory fee is charged any student who registers for a laboratory class. This payment is not refundable.

GENERAL POLICIES

POLICY CHANGES

The University of Lowell reserves the right to change requirements, subjects, courses, regulations, and other policies stated in the 1977-78 catalogue without formal notice.

INCLEMENT WEATHER

The inherent difficulties in notifying all the Evening School student body and instructors in sufficient time results in the policy that the Evening School will not be closed for reasons of weather.

NOTE: This brochure contains limited information covering policies, procedures and regulations governing the Evening School of the University of Lowell. Details are available in the current 77-78 catalog.

CLEP — TEST CENTER

Students who are interested in taking subject examinations of the College Level Examination Program should secure applications from the office of Continuing Education. CLEP tests are administered at the University the third Thursday of each month at 9:00 a.m.

CLASS SESSION CALENDAR
SPRING TERM 1977-1978

Mon	Tues	Wed	Thurs	Fri	
9	10	11	12		January
	REGISTRATION				
	17	18	19	20 Mon Class Meets	
23	24	25	26		
30	31	1	2		
6	7	8	9		February
13	14	15	16	17 Mon Class Meets	
	21	22	23		
27	28	1	2		
6	7	8	9		March
13	14	15	16		
20	21	22	23		
27	28	29	30	31 Make Up	
3	4	5	6	7 Make Up	April
10	11	12	13	14 Tues Class Meets	
	18 Mon Class Meets	19	20	21 Make Up	
24	25	26	27		
	EXAMS				
		3	4		May
		Summer Registration			
8 Summer Registration	9				

SECOND SEMESTER OFFERINGS

January 1978

PLEASE USE NEW COURSE NUMBERS WHEN REGISTERING

COURSE NO. New - (Old)	COURSE TITLE	NIGHTS OFFERED	PREREQUISITE
	BUSINESS, MANAGEMENT AND ECONOMICS		
67.201-(15.11)	Accounting Principles I	Mon., Wed., Thurs.	---
67.202-(15.12)	Accounting Principles II	Mon., Tu., Wed., Th.	67.201
67.302-(15.48)	Intermediate Accounting II	Tues., Thurs.	67.301
67.311-(15.24)	Managerial Accounting	Wed.	67.202
67.362-(15.21)	Business Law I	Mon., Wed.	---
67.363-(15.22)	Business Law II	Mon.	---
67.402-(15.58)	Adv. Financial Accntg. II	Tues.	67.401
67.412-(15.96)	Cost Accounting II	Wed.	67.202
67.431-(15.94)	Federal Income Taxes	Thurs.	67.202
68.201-(16.21)	Economics I	Mon., Wed.	---
68.202-(16.22)	Economics II	Mon., Tu., Wed., Th.	---
68.307-(15.71)	Government and Business	Mon.	68.201 or 68.202
68.312-(16.72)	Managerial Economics	Thurs.	68.201; 68.202;90.242
68.332-(16.51)	Money and Banking	Mon.	68.201; 68.202
69.201-(15.31)	Princ. of Management	Mon., Tues., Wed.	---
69.321-(15.34)	Marketing Principles	Tues., Wed.	68.201
69.331-(15.32)	Business Finance	Tues., Thurs.	67.202; 68.201; 68.202
69.371-(15.44)	Operations Management I	Tues., Thurs.	68.211
69.411-(15.88)	Current Management Problems in Business and Industry	Wed.	69.410
69.412-(15.89)	Small Business Mgt. Seminar	Wed.	Senior Standing
69.414-(15.91)	Business Systems & Procedures	Thurs.	69.201
69.415-(15.92)	Affirmative Action	Tues.	---
69.417-(15.98)	Real Estate	Mon.	67.362
69.421-(15.51)	Purchasing & Materials Hdlg.	Tues.	69.321
69.426-(15.62)	Sales Management	Thurs.	69.321
69.434-(15.97)	Investment Management	Wed.	66.331
69.451-(15.41)	Personnel Management	Tues., Thurs.	69.353
69.452-(15.36)	Industrial Relations	Mon.	69.451
69.481-(15.61)	Risk Management & Insurance	Mon.	---
69.499-(15.82)	Business Policy II	Wed.	69.498
	BANKING		
69.101-(17.11)	Princ. of Bank Operations	Mon.	---
69.102-(17.21)	Bank Management	Tues.	---
69.103-(17.31)	Credit Administration	Tues.	---
69.106-(17.42)	Real Estate Finance	Mon.	---
69.109-(17.61)	Bank Public Relations and Marketing	Wed.	---
69.110-(17.62)	Saving and Time Deposit Banking	Wed.	---
	CHEMISTRY		
84.121-(20.11)	Chemistry	Thurs.	---
84.126-(20.12)	Chemistry	Thurs.	81.421 or equivalent
84.224-(20.42)	Organic Chemistry II B	Mon.	continuation of first semester
84.314-(20.82)	Analytical Chemistry II	Mon.	86.122; 99.143; co-req. 84.316
84.316-(20.84)	Analytical Chem. II Lab	Wed.	86.122; co-req. 84.314
84.338-(20.54)	Princ. of Physical Chem. Lab	Thurs.	86.342
86.122-(20.32)	Analytical Chemistry	Mon.	86.121
86.232-(20.44)	Organic Chemistry Lab II	Wed.	pre-req. or co-req. of 84.224
86.342-(20.52)	Intro. to Physical Chemistry	Tues.	86.341
86.352-(20.62)	Chemical Applications	Thurs.	86.342
86.362-(20.72)	Adv. Organic Chemistry	Tues.	86.361
86.482-(20.92)	Chemistry of High Polymers	Thurs.	86.481
	SCIENCE		
88.141	Weather and Climate	Tues.	---
89.102	General Geology II	Tues.	
94.342	Fund. of Science II	Mon.	94.341
94.343	Intro. to Environmental Problems	Thurs.	---
94.346-(23.46)	Emergency Medical Care	Wed.	94.345
95.141-(46.10)	Physics I	Tues., Thurs.	90.115 (concurrently)
99.142 (46.27)	Physics II	Thurs.	95.141; 90.131 (concurrently)
99.143-(46.28)	Physics III	Thurs.	99.142
	MATHEMATICS		
90.010-(45.10)	Introductory Mathematics	Thurs.	---
90.111-(45.11)	Mathematics A	Tues., Thurs.	2 yrs. high school math inc. 1 yr. alg.
90.112-(45.12)	Mathematics B	Tues., Thurs.	90.111 or placement exam
90.113-(45.15)	Intro. to Analysis I	Tues., Thurs.	90.111 or placement exam
90.115-(45.16)	Intro. to Analysis II	Mon., Wed.	90.113
90.119-(45.21)	Mathematics C	Mon.	90.112
90.131-(45.26)	Calculus I	Wed.	90.115
90.131-(45.26)	Calculus I (Individualized)	Wed.	90.115
90.132-(45.31)	Calculus II	Mon., Tues.	90.131
90.132-(45.31)	Calculus II (Individualized)	Mon.	90.131
92.206	Elementary Statistical Analysis	Tues.	For Med Tech and Nursing students only
90.211-(45.81)	Modern Concepts in Math	Tues.	90.115
90.231-(45.32)	Calculus III	Mon.	90.132
90.232-(45.41)	Calculus IV	Mon.	90.231
90.241-(15.45)	Business Statistics I	Wed.	90.119 (For Business students only)
90.242-(15.46)	Business Statistics II	Mon., Thurs.	90.241 (For Business students only)
92.302-(45.84)	Applied Math II	Thurs.	92.301
92.314-(45.42)	Differential Equations	Thurs.	90.232
90.315-(45.44)	Partial Differential Equations	Wed.	92.314
90.454-(45.74)	Methods in Numerical Analysis II	Mon.	90.362
92.383-(45.37)	Intro. to Statistics	Wed.	90.113
92.407	Intro. to Probability Theory	Tues.	90.232
92.422	Abstract Algebra II	Wed.	92.421
92.498	Mathematics Seminar	T.B.A.	Permission of Coordinator
	COMPUTER SCIENCES		
69.464-(30.64)	Management Info. Syst. II	Thurs.	69.463
90.252-(30.42)	Computers II	Mon., Wed.	---
90.361-(30.31)	Fortran Programming	Wed., Thurs.	90.112 or 90.113
90.363-(30.23)	Intro. To Digital Computers	Mon., Wed.	---
92.209	Intro. to Theory of Computer Programming	Mon.	For Med Tech and Nursing students only
92.366-(30.34)	Adv. Fortran Programming	Tues., Wed.	90.361
92.367-(30.24)	Assembler Language Programming I	Tues.	92.363 or 90.361
92.368-(30.44)	Cobol Programming II	Wed.	92.365
92.462-(30.48)	Adv. Programming Systems	Mon.	92.367
92.464-(30.56)	Systems Design & Development II	Tues.	92.463
92.467-(30.72)	Assembler Language Programming II	Tues.	92.367
92.468-(30.65)	Minicomputer Princ. & Applications	Wed.	92.367; 90.132
92.469-(30.76)	Compiler Construction Techniques	Thurs.	92.367
92.471-(30.85)	Managing the Data Processing Function	Tues.	92.463
	CIVIL ENGINEERING TECHNOLOGY		
15.124-(25.24)	Surveying II	Mon.	15.123
15.239-(25.39)	Strength of Materials	Thurs.	15.237
15.242-(25.42)	Steel Design I	Wed.	15.251
15.243-(25.43)	Construction Materials	Mon.	99.142
15.246-(25.46)	Intro. to Hydraulics	Tues.	15.239
15.254-(25.54)	Soil Mechanics I	Mon.	15.239; 15.243
15.356-(25.56)	Environmental Engineering II	Tues.	15.255
15.383-(25.83)	Steel Design II	Wed.	15.242
15.486-(25.86)	Transportation Elements	Mon.	15.257
15.394-(25.94)	Soil Mechanics Lab	Thurs.	15.392
	ELECTRONIC ENGINEERING TECHNOLOGY		
17.128-(35.28)	Basic Electronics	Thurs.	17.127
17.223-(35.23)	Electric Circuits I	Wed.	90.131; 99.142 (both may be taken concurrently)
17.224-(35.24)	Electric Circuits II	Wed.	17.223; 90.132 (both may be taken concurrently)
17.225-(35.35)	Electric Circuits III	Wed.	17.224; 90.132 (both may be taken concurrently)
17.240-(35.40)	Electromechanics	Tues.	17.224
17.350-(35.50)	Control Systems I	Wed.	17.225; 90.132; 99.142
17.360-(35.57)	Electronics Lab	Mon., Tu., Wed., Th.	17.359; 17.363
17.362-(35.46)	Electronics I	Thurs.	17.224; 90.132; 99.142
17.364-(35.55)	Electronics III	Thurs.	17.363
17.366-(35.66)	Integrated Circuits II	Tues.	17.365
17.372-(35.72)	Logic Design II	Mon.	17.371
17.376-(35.25)	Electromagnetic Theory	Wed.	92.314
17.382-(35.82)	Engineering Problem Solutions	Mon., Thurs.	17.372; 17.381
17.392-(35.92)	Project Laboratory II	Mon., Tu., Wed., Th.	17.391
17.414-(35.14)	High Frequency Tech. II	Mon.	17.413
17.416-(35.16)	Pulse Techniques II	Thurs.	17.415
17.434-(35.34)	Switching Circuits and Logical Design II	Tues.	17.433
17.480	Microprocessors	Thurs.	17.417
17.494-(35.94)	Telecommunication Engineering	Tues.	17.225; 17.371
	INDUSTRIAL ENGINEERING TECHNOLOGY		
21.254-(40.54)	Plant Layout & Materials Handling	Tues.	20.351
21.256-(40.56)	Production Measurements	Wed.	20.351
21.374-(40.74)	Production Management	Tues.	69.201; 21.452; 21.471
21.382-(40.82)	Manufacturing Cost Analysis	Thurs.	21.361

COURSE NO.	COURSE TITLE	NIGHT OFFERED	PREREQUISITE
	INDUSTRIAL TECHNOLOGY		
20.222	Wastewater Treatment Plant Op. II	Tues., Thurs.	20.221
20.224	Wastewater Treatment Lab II	Mon., Tues., Thurs.	20.221; 20.223
20.301	Modern Materials	Mon.	20.201
20.351-(40.51)	Method Time Analysis	Tues.	---
20.408	Instrumentation & Proc. Control	Wed.	17.127
20.410	Instrumentation & Proc. Lab	Thurs.	20.408
20.476-(40.42)	Statistical Quality Control	Mon.	92.383
	MECHANICAL ENGINEERING TECHNOLOGY		
23.111-(50.17)	Engineering Drawing I	Tues., Wed.	---
23.112-(50.18)	Engineering Drawing II	Tues.	23.111
23.151-(50.33)	Engineering Tech. Computations	Wed.	23.111; 90.132 (may be taken concurrently)
23.201-(50.36)	Mech. Tech. Lab I	Tues.	---
23.202-(50.46)	Mech. Tech. Lab II	Tues.	23.242; 23.243 (may be taken concurrently)
23.222-(50.38)	Applied Mech. II (Dynamics)	Mon.	90.132) 23.221
23.223-(50.39)	Strength of Materials	Wed.	90.132; 23.221
23.232-(50.52)	Machine Design	Wed.	23.223
23.243-(50.44)	Elements of Thermodynamics	Thurs.	23.241
23.351-(50.61)	Problems in Mech. Tech. Eng.	Wed.	23.222; 23.223
23.352-(50.62)	Properties of Materials I	Tues.	84.121
23.303-(50.73)	Mech. Eng. Tech. Lab III	Mon.	23.223; 23.352
23.405-(50.72)	Mech. Eng. Tech Lab V	Mon.	23.404
23.471-(50.80)	Adv. Strength of Materials	Thurs.	90.232; 23.223
23.472-(50.81)	Applied Dynamics	Thurs.	92.314; 23.222; 23.223
23.478-(50.91)	Aerodynamics	Thurs.	---
23.455-(50.92)	Thermodynamics & Heat Transfer	Mon.	90.132; 99.142
	CRIMINAL JUSTICE		
44.101-(81.12)	The Criminal Justice System	Wed.	---
44.152-(81.18)	Intro. to Corrections II	Mon.	44.151
44.221-(81.13)	Criminology I	Mon.	---
44.222-(81.15)	Criminology II	Tues.	44.221
44.231-(81.36)	Juvenile Court Philosophy and Practice	Thurs.	44.161
44.244-(81.34)	Criminalistics II	Tues	44.243
44.253-(81.26)	Problems of Misdemeananits	Thurs.	---
44.255-(81.40)	Probation and Parole II	Tues.	44.254
44.331-(81.51)	Penal Law	Wed.	---
44.371-(81.42)	Criminal Justice Management and Planning	Mon.	---
44.390	Intro. to Criminal Justice Research	Wed.	---
46.196-(81.38)	Constitutional Law and Civil Rights	Mon.	---
	PLASTICS		
27.202-(55.32)	Plastics Materials Science	Mon.	---
27.303	Reinforced Plastics	Thurs.	27.202
27.402-(55.42)	Processing Technology II	Wed.	27.401
27.376-(55.48)	Mold Engineering II	Tues.	continuation of 27.373
	CLINICAL LABS SCIENCES (CLASS HOURS 6:00 - 9:00 P.M.)		
35.101	Anatomy & Physiology I	Wed.	co-requisite 35.103
35.102	Anatomy & Physiology II	Tues.	35.101; 35.103 co-requisite 35.104
35.103	Anatomy & Physiology I Lab	Thurs.	co-requisite 35.101
35.104	Anatomy & Physiology II Lab	Mon., Wed.	35.101; 35.103 co-requisite 35.102
35.252	Physiological Science II	Wed.	35.251 co-requisite 35.254
35.354	Physiological Science II Lab	Mon., Thurs.	35.251; 35.253 co-requisite 35.252
	MEDICAL TECHNOLOGY (CLASS HOURS 6:00 - 9:00 P.M.)		
36.311	Medical Microbiology	Tues.	35.211; 35.213
36.313	Medical Microbiology Lab	Thurs.	35.211; 35.213 co-requisite 35.311
36.331	Immunohematology	Mon.	36.111; 36.313 co-requisite 36.355
36.333	Immunohematology Lab	Wed.	36.331
36.361	Medical Instrumentation	Tues.	35.251; 35.252
36.363	Medical Instrumentation Lab	Wed.	co-requisite 36.361

COURSE NO.	COURSE TITLE	NIGHT OFFERED	PREREQUISITE
	AREA I: BEHAVIORAL AND SOCIAL SCIENCES		
43.112	U.S. History since 1877	Tues.	---
43.277	Ethnic Groups in American Life	Wed.	---
43.316-(91.64)	History of Lowell	Thurs.	---
43.319	History of American Indians	Mon.	---
46.101	Intro. to American Politics	Wed.	---
46.196-(81.38)	Constitutional Law and Civil Rights	Mon.	46.195
46.256-(91.49)	American Public Administration	Thurs.	---
46.344	The American Presidency	Tues.	---
47.101-(91.24)	General Psychology	Wed., Thurs.	---
47.232-(91.25)	Theories of Personality	Tues.	47.101
47.272-(91.26)	Abnormal Psychology	Tues.	47.101
47.328	Dynamics of Interpersonal Relations	Mon.	47.101
47.364	Psychology of Crime and Correction	Thurs.	47.272
48.101-(91.23)	Introduction to Sociology	Mon., Thurs.	---
48.321-(91.40)	Sociology of the Family	Wed.	---
48.295-(91.30)	Futuristics I B	Mon.	---
88.110-(91.45)	Man and His Environment		
	AREA II: FINE ARTS AND HUMANITIES		
41.202	Survey of Art	Mon.	---
41.271	Painting I	Tues.	---
42.101-(90.11)	College Writing	Mon., Tues., Wed.	---
42.102-(90.14)	College Writing & Literature	Mon., Tu., Wed., Th.	42.101
42.111-(15.64)	Technical and Business Writing	Mon., Wed.	42.101
42.112-(90.20)	Technical and Scientific Writing	Wed., Thurs.	42.101
42.212-(90.40)	The Short Story	Wed.	---
42.240-(90.31)	Literature and Women	Wed.	---
42.246-(90.51)	The Rogue in Fiction	Tues.	---
42.291-(90.21)	History of English Lit. I	Mon.	---
45.201-(90.43)	Intro. to Philosophy	Thurs.	---
50.102-(90.30)	Beginning French II	Mon.	50.101
54.101-(90.33)	Beginning Spanish I	Wed.	
54.102-(90.34)	Beginning Spanish II	Wed.	54.101

Other Continuing Education Offerings

Summer School

Day Session brochure available March 1978
Evening Sessions brochure available April 1978

Graduate School

For graduate programs contact the Graduate School Office, Cumnock Hall

Non-Credit Subjects

Listing available February
Classes start in March 1978